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String  
Question 1 : How to reverse a String in java? Can you write a program without using any java inbuilt methods?  
Question 2 : Write a java program to check if two Strings are anagram in java?  
Question 3 : Write a program to check if String has all unique characters in java?  
Question 4 : How to check if one String is rotation of another String in java?  
Question 5 : How to find duplicate characters in String in java?  
Question 6 : Find first non repeated character in String in java?  
Question 7 : Find all substrings of String in java?  
Question 8 : Find length of String without using any inbuilt method in java?  
Question 9 : Write a program to print all permutations of String in java?  
  
  
Array  
Question 10 : Write java Program to Find Smallest and Largest Element in an Array.  
Question 11 : Find missing number in the array.  
Question 12 : Search an element in rotated and sorted array.  
Question 13 : Find minimum element in a sorted and rotated array.  
Question 14: Find second largest number in an array  
Question 15 : Find the number occurring odd number of times in an array  
Question 16 : Find minimum number of platforms required for railway station  
Question 17 : Find a Pair Whose Sum is Closest to zero in Array  
Question 18 : Given a sorted array and a number x, find the pair in array whose sum is closest to x  
Question 19 : Find all pairs of elements from an array whose sum is equal to given number  
Question 20: Given an array of 0’s and 1’s in random order, you need to separate 0’s and 1’s in an array.  
Question 21 : Separate odd and even numbers in an array  
Question 22 : Given an array containing zeroes, ones and twos only. Write a function to sort the given array in O(n) time complexity.  
Question 23 : Find local minima in array  
  
Question 24 : Sliding window maximum in java  
Question 25 : Count number of occurrences (or frequency) of each element in a sorted array  
  
  
Question 29 : Count 1’s in sorted Binary Array.  
Question 30 : Find first repeating element in an array of integers.  
Question 31 : Check if Array Elements are Consecutive.  
Question 32 : Permutations of array in java.  
Question 33 : Rotate an array by K positions.  
Question 34 : Stock Buy Sell to Maximize Profit.  
Question 35 : Find maximum difference between two elements such that larger element appears after the smaller number.  
Question 36 : Search in a row wise and column wise sorted matrix.  
Question 37 : Largest sum contiguous subarray.  
Question 38 : Find the Contiguous Subarray with Sum to a Given Value in an array.  
  
  
Question 39 : Longest Common Prefix in an array of Strings in java.  
Question 40 : Find all subsets of set (power set) in java.  
Stack  
Question 41: Implement a stack using array.  
Question 42: Implement a stack using Linked List.  
Question 43: Implement a stack using two queues.  
Question 44 : Sort an stack using another stack  
Queue  
Question 45: Implement Queue using Array in java.  
Question 46: Implement a stack using two queues .  
Linked List  
Question 47 : Implement singly linked list in java.  
Question 48: How to reverse linked list in java.  
Question 49: How to find middle element of linked list.  
Question 50 : How to find nth element from end of linked list .  
Question 51 : How to detect a loop in linked list. If linked list has loop, find the start node for the loop.  
Question 52: How to check if linked list is palindrome or not?  
Question 53 : Find intersection of two linked lists?  
Question 54 : How to reverse a linked list in pairs?  
Question 55 : Implement Doubly linked list in java?  
  
  
Binary Tree  
Question 56 : How can you traverse binary tree?  
Question 57 : Write an algorithm to do level order traversal of binary tree?  
Question 58 : Write an algorithm to do spiral order traversal of binary tree?  
Question 59 : How can you print leaf nodes of binary tree?  
Question 60 : How to count leaf nodes of binary tree.  
Question 61 : How to print all paths from root to leaf in binary tree.  
Question 62 : How to find level of node in binary tree  
Question 63 : How to find maximum element in binary tree.  
Question 64 : How to find lowest common ancestor(LCA) in binary tree.  
Question 65 : How to do boundary traversal of binary tree.  
Question 66 : How to print vertical sum of binary tree?  
Question 67 : Count subtrees with Sum equal to target in binary tree?  
Binary Search tree  
Question 68 : What is binary search tree?  
Question 69 : Can you write algorithm to insert a node in binary search tree.  
Question 70 : Can you write algorithm to delete a node in binary search tree.  
Question 71 : How can you find minimum and maximum elements in binary search tree?  
Question 72 : How to find lowest common ancestor(LCA) in binary search tree.  
Question 73 : Find inorder successor in a Binary search Tree  
Question 74 : Convert sorted array to balanced BST  
Question 75 : Convert sorted Linked List to balanced BST  
Question 76 : Check if a binary tree is binary search tree or not in java  
Sorting  
Question 77 : Write an algorithm to implement bubble sort?  
Question 78 : Write an algorithm to implement insertion sort sort?  
Question 79 : Write an algorithm to implement selection sort sort?  
Question 80 : Can you write algorithm for merge sort and also do you know complexity of merge sort?  
Question 81 : Do you know how to implement Heap sort?  
Question 82 : Implement quick sort in java?  
Question 83 : Implement shell sort in java?  
Question 84 : Implement Counting sort in java?  
Question 85 : What is binary search? Can you write an algorithm to find an element in sorted array using binary search?  
Graph  
Question 86 : Write algorithm to do depth first search in a graph.  
Question 87 : Write algorithm to do breadth first search in a graph.  
Question 88 : Explain Dijkstra algorithm from source to all other vertices.  
Question 89 : Explain Bellman Ford algorithm to find shortest distance  
Question 90 : Explain Kruskal’s algorithm for finding minimum spanning tree  
Dynamic Programming  
Question 91 : Given two String, find longest common substring.  
Question 92 : Given two Strings A and B. Find the length of the Longest Common Subsequence (LCS) of the given Strings.  
Question 93 : Given a matrix, we need to count all paths from top left to bottom right of MxN matrix. You can either move down or right.  
Question 94 : Edit Distance Problem in java  
Question 95: Coin change problem in java  
Question 96 : Minimum number of jumps to reach last index  
Miscellaneous  
Question 97 : What is an algorithm and how to calculate complexity of algorithms.  
Question 98 : Implement trie data structure in java.  
Question 99 : Count Factorial Trailing Zeroes in java.  
Question 100 : Largest Rectangular Area in a Histogram.  
Question 101 : Check for balanced parentheses in an expression in java.  
Question 102 : What is Memoization.